



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/579,987

05/19/2006

Yasunori Yoshida

740756-2971

9491

22204 7590 09/10/2009

NIXON PEABODY, LLP

401 9TH STREET, NW

SUITE 900

WASHINGTON, DC 20004-2128

EXAMINER

PHILOGENE, HAISSA

ART UNIT

PAPER NUMBER

2821

MAIL DATE

DELIVERY MODE

09/10/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/579,987	YOSHIDA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Haissa Philogene	2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 19 May 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 June 2008 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>8/27/08; 5/19/06</u>  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Specification*

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto, Patent No. 6,633,270 in view of Yamazaki et al., Patent No. EP 1 058 310, cited by Applicant.

As per claims 1 and 3, Hashimoto discloses in Figs. 3 and 4A a display device comprising: a plurality of source signal lines (65) [over an insulating surface], a plurality of gate signal lines (66), a plurality of power supply lines in columns (67), a plurality of power supply lines in rows (13), and a plurality of pixels (21) arranged in matrix, wherein each of the plurality of pixels (21) includes a switching thin film transistor (63), a driving thin film transistor (62), and a light emitting element (61), wherein each of the plurality of pixels (21) is connected to one of the plurality of power supply lines in columns (67) and one of the plurality of power supply lines in rows (13). Hashimoto does not disclose the plurality of source signal lines over an insulating surface, wherein an insulating thin film is formed in a portion under at least one of the plurality of source signal lines, the plurality of gate signal lines, the plurality of power supply lines in columns, and the plurality of power supply lines in rows. Yamazaki discloses a display device having, inter alia, a plurality of source signal lines (151-154) over an insulating surface (149), wherein an insulating thin film (105c) is formed in a portion under the plurality of source signal lines (154). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to employ the insulating surface and the insulating thin film as taught by Yamazaki into the Hashimoto type device, because it would ensure a decrease in parasitic capacitance.

As per claims 4 and 5, Hashimoto in view of Yamazaki discloses the claimed invention substantially as explained above. In addition, Yamazaki discloses the plurality of source signal lines (151-154) by a sputtering method (see page 11, paragraph [0136]; and the display device being applied to an electric appliance selected from the group consisting of a personal computer, a television receiver, a camera, a

Art Unit: 2821

image reproduction device, a head counted display, a portable information terminal (see pages 23-24, paragraph [0302]—paragraph [0311].

As per claim 2, Hashimoto in view of Yamazaki discloses the claimed invention substantially as explained above except for the connection of the pixels by a droplet discharging method or a printing method. The examiner takes Official Notice of the use of well-known droplet discharging or printing method as a known manufacturing method in the electro-optic or semiconductor devices art to perform selective coating. It would therefore be obvious to a person having ordinary skill in the art at the time the invention was made to employ the well-known droplet discharging or printing method into the Hashimoto in view of Yamazaki type device manufacturing method, because it would ensure a reliable selective application so that the device itself can be effectively manufactured at low cost.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yamazaki et al., Patent No. 7,192,859; Takayama et al., Patent No. 7,045,861; Hashimoto et al., Patent No. 7,029,960; Kimura, Patent No. 6,475,845.

### ***Correspondence***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Haissa Philogene whose telephone number is (571) 272-1827. The examiner can normally be reached on 8:30 A.M.-6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas W. Owens can be reached on (571)272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2821

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Haissa Philogene/  
Primary Examiner, Art Unit 2821